SEQUENCE LISTING

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<110> Friddle, Carl Johan
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Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu
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Gly Gln Ala Phe Arg Arg Val Arg Leu Leu Arg Glu Leu Ser Glu
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Arg Leu Glu Leu Val Phe Leu Val Asp Asp Ser Ser Val Gly Glu
Val Asn Phe Arg Ser Glu Leu Met Phe Val Arg Lys Leu Leu Ser Asp
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Ser Lys Asn Tyr Val Val Pro Arg Val Asp Tyr Ile Ser Thr Arg Arg
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1345 Lys Gly Arg Cys Gly 1425 Leu	Asp Ser Asn Gln 1410 Phe Asp	Asp Gly His Gln 1395 Pro Asn	Glu Ala Cys 1380 Ala Gly Leu Met	Asn 1365 Glu Thr Phe Asp Leu 1445 Asp	Leu 1350 Ser Leu Cys Ser Phe 1430 Pro	Ser) Phe Asn Val Gly 1415 Glu) Ser	Gln Arg Ile Asp 1400 Gln Val Leu	Cys Asn 1385 Glu Arg Arg Ser	Leu 137(Glu 5 Leu Cys Gly Ala 145(Gly	1355 Cys) Cys Asn Glu Ile 1435 Leu	Asn Ala Gln Ser Thr 1420 Tyr	Gly Ala Ser Tyr 1405 Glu Gly Cys	Gly Asn 1390 Ser Gln Tyr	Thr Phe 1375 Pro Cys Ser Val Phe 1455 Tyr	1360 Thr Cys Lys Thr Met 1440 Trp
1345 Lys Gly Arg Cys Gly 1425 Leu Met	1330 Val Asp Ser Asn Gln 1410 Phe Asp	Asp Gly His Gln 1395 Pro Asn Gly Ser	Glu Ala Cys 1380 Ala Gly Leu Met Ser 1460	Asn 1365 Glu Thr Phe Asp Leu 1445 Asp	Leu 1350 Ser Leu Cys Ser Phe 1430 Pro	Ser) Phe Asn Val Gly 1415 Glu) Ser Met	Gln Arg Ile Asp 1400 Gln Val Leu Asn	Asn 1385 Glu Arg Ser His	Leu 1370 Glu 5 Leu Cys Gly Ala 1450 Gly	1355 Cys Cys Asn Glu Ile 1435 Leu	Asn Ala Gln Ser Thr 1420 Tyr Thr	Gly Ala Ser Tyr 1405 Glu Gly Cys Ile	Asn 1390 Ser Gln Tyr Thr Ser 1470	Thr Phe 1375 Pro Cys Ser Val Phe 1455 Tyr	1360 Thr Cys Lys Thr Met 1440 Trp
1345 Lys Gly Arg Cys Gly 1425 Leu Met	1330 Val Asp Ser Asn Gln 1410 Phe Asp	Asp Gly His Gln 1395 Pro Asn Gly Ser	Glu Ala Cys 1380 Ala Gly Leu Met Ser 1460 Gly	Asn 1365 Glu Thr Phe Asp Leu 1445 Asp	Leu 1350 Ser Leu Cys Ser Phe 1430 Pro	Ser) Phe Asn Val Gly 1415 Glu) Ser Met	Gln Arg Ile Asp 1400 Gln Val Leu Asn	Asn 1385 Glu) Arg Ser His Tyr 1465 Leu	Leu 1370 Glu 5 Leu Cys Gly Ala 1450 Gly	1355 Cys Cys Asn Glu Ile 1435 Leu	Asn Ala Gln Ser Thr 1420 Tyr Thr	Gly Ala Ser Tyr 1405 Glu Gly Cys Ile	Asn 1390 Ser Gln Tyr Thr Ser 1470	Thr Phe 1375 Pro Cys Ser Val Phe 1455 Tyr	1360 Thr Cys Lys Thr Met 1440 Trp
1345 Lys Gly Arg Cys Gly 1425 Leu Met	Asp Ser Asn Gln 1410 Phe Asp Lys Asp	Asp Gly His Gln 1395 Pro Asn Gly Ser Asn	Glu Ala Cys 1380 Ala Gly Leu Met Ser 1460 Gly	Asn 1365 Glu Thr Phe Asp Leu 1445 Asp	Leu 1350 Ser Leu Cys Ser Phe 1430 Pro Asp	Ser Phe Asn Val Gly 1415 Glu Ser Met Asn	Gln Arg Ile Asp 1400 Gln Val Leu Asn Thr 1480	Asn 1385 Glu Arg Ser His Tyr 1465 Leu	Leu 1370 Glu Leu Cys Gly Ala 1450 Gly Leu	1355 Cys Cys Asn Glu Ile 1435 Leu Thr	Asn Ala Gln Ser Thr 1420 Tyr Thr Pro	Gly Ala Ser Tyr 1405 Glu Gly Cys Ile Asp 1485	Asn 1390 Ser Gln Tyr Thr Ser 1470 Tyr	Thr Phe 1375 Pro) Cys Ser Val Phe 1455 Tyr) Asn	1360 Thr Cys Lys Thr Met 1440 Trp Ala Gly
1345 Lys Gly Arg Cys Gly 1425 Leu Met	1330 Val Val Asp Ser Asn Gln 1410 Phe Asp Lys Asp Val	Asp Gly His Gln 1395 Pro Asn Gly Ser Asn 1475 Leu	Glu Ala Cys 1380 Ala Gly Leu Met Ser 1460 Gly	Asn 1365 Glu Thr Phe Asp Leu 1445 Asp	Leu 1350 Ser Leu Cys Ser Phe 1430 Pro Asp	Ser Phe Asn Val Gly 1415 Glu Ser Met Asn Gly	Gln Arg Ile Asp 1400 Gln Val Leu Asn Thr 1480 Arg	Asn 1385 Glu) Arg Ser His Tyr 1465 Leu	Leu 1370 Glu Leu Cys Gly Ala 1450 Gly Leu	1355 Cys Cys Asn Glu Ile 1435 Leu Thr	Asn Ala Gln Ser Thr 1420 Tyr Thr Pro Thr	Gly Ala Ser Tyr 1405 Glu Gly Cys Ile Asp 1485 Asn	Asn 1390 Ser Gln Tyr Thr Ser 1470 Tyr	Thr Phe 1375 Pro) Cys Ser Val Phe 1455 Tyr) Asn	1360 Thr Cys Lys Thr Met 1440 Trp Ala Gly
1345 Lys Gly Arg Cys Gly 1425 Leu Met Val	Asp Ser Asn Gln 1410 Phe Asp Lys Asp Val 1490	Asp Gly His Gln 1395 Pro Asn Gly Ser Asn 1475 Leu	Glu Ala Cys 1380 Ala Gly Leu Met Ser 1460 Gly Tyr	Asn 1365 Glu Thr Phe Asp Leu 1445 Asp Ser Val	Leu 1350 Ser Leu Cys Ser Phe 1430 Pro Asp Asp	Ser Phe Asn Val Gly 1415 Glu Ser Met Asn Gly 1495	Gln Arg Ile Asp 1400 Gln Val Leu Asn Thr 1480 Arg	Asn 1385 Glu Arg Ser His Tyr 1465 Leu	Leu 1370 Glu 5 Leu Cys Gly Ala 1450 Gly 5 Leu	1355 Cys Cys Cys Asn Glu Ile 1435 Leu Thr Leu	Asn Ala Gln Ser Thr 1420 Tyr Thr Pro Thr Thr	Gly Ala Ser Tyr 1405 Glu Gly Cys Ile Asp 1485 Asn	Asn 1390 Ser Gln Tyr Thr Ser 1470 Tyr	Thr Phe 1375 Pro) Cys Ser Val Phe 1455 Tyr) Asn	1360 Thr Cys Lys Thr Met 1440 Trp Ala Gly Ser
1345 Lys Gly Arg Cys Gly 1425 Leu Met Val	Asp Ser Asn Gln 1410 Phe Asp Lys Asp Val 1490 Asn	Asp Gly His Gln 1395 Pro Asn Gly Ser Asn 1475 Leu	Glu Ala Cys 1380 Ala Gly Leu Met Ser 1460 Gly Tyr	Asn 1365 Glu Thr Phe Asp Leu 1445 Asp Ser Val	Leu 1350 Ser Leu Cys Ser Phe 1430 Pro Asp Asp	Ser Phe Asn Val Gly 1415 Glu Ser Met Asn Gly 1495 His	Gln Arg Ile Asp 1400 Gln Val Leu Asn Thr 1480 Arg	Asn 1385 Glu Arg Ser His Tyr 1465 Leu	Leu 1370 Glu Leu Cys Gly Ala 1450 Gly Leu Lys	1355 Cys Cys Cys Asn Glu Ile 1435 Leu Thr Leu	Asn Ala Gln Ser Thr 1420 Tyr Thr Pro Thr Thr	Gly Ala Ser Tyr 1405 Glu Gly Cys Ile Asp 1485 Asn	Asn 1390 Ser Gln Tyr Thr Ser 1470 Tyr	Thr Phe 1375 Pro) Cys Ser Val Phe 1455 Tyr) Asn	1360 Thr Cys Lys Thr Met 1440 Trp Ala Gly

ASII	Gly	Ile	Trp	Lys 1525		Tyr	Ile	Asp	Gly 1530		Leu	Ser	Asp	Gly 1535	
Ala	Gly	Leu	Ser 1540		Gly	Leu	Pro	Ile 1545		Gly	Gly	Gly	Ala 1550		Val
Leu	Gly	Gln 1555	Glu 5	Gln	Asp	Lys	Lys 1560		Glu	Gly	Phe	Ser 1565		Ala	Glu
Ser	Phe 1570	Val	Gly	Ser	Ile	Ser 1575	Gln		Asn	Leu	Trp 1580		Tyr	Val	Leu
Ser			Gln	Val	Lvs			Ala	Thr	Ser			Glu	Glu	Leu
1585					1590					1595					1600
Ser	Lys	Gly	Asn	Val 1605		Ala	Trp	Pro	Asp 1610		Leu	Ser	Gly	Ile 1615	
Gly	Lys	Val	Lys 1620		Asp	Ser	Lys	Ser 1625		Phe	Cys	Ser	Asp 1630		Pro
Arg	Leu	Gly 1639		Ser	Val	Pro	His 1640		Arg	Thr	Ala	Ser 1645		Asp	Leu
Lys	Pro 1650		Ser	Lys	Val	Asn 1655		Phe	Суѕ	Asp	Pro 1660		Phe	Gln	Leu
Val	Gly	Asn	Pro	Val	Gln	Tyr	Cys	Leu	Asn	Gln	Gly	Gln	${\tt Trp}$	Thr	Gln
1665					1670					1675					1680
			His	1685	5				1690)				1695	5
Glu	Asn	Gly	Phe 1700		Ser	Ala	Asp	Asp 1705		Tyr	Ala	Gly	Ser 1710		Val
Thr	Tyr	Gln 171	Cys 5	Asn	Asn	G1y	Tyr 1720		Leu	Leu	Gly	Asp 1725		Arg	Met
Phe	Cys 1730		Asp	Asn	Gly	Ser 1735		Asn	Gly	Val	Ser 1740		Ser	Cys	Leu
		7 ~~	G1	Q	77.	77-7	C1	G	7	C	Sar	Clu	ui.	777	000
Asp 1745		ASP	GIU	Cys	1750		GTĀ	ser	Asp	1755		Giu	птэ	Ата	1760
1745	5				1750 Gly)				1755 Ser	5				1760 Tyr
1745 Cys	Leu	Asn	Val	Asp 1765 Lys	1750 Gly) Ser	Tyr	Ile	Cys 1770 Pro	1755 Ser)	Cys	Val	Pro	Pro 1775 Ala	1760 Tyr
1745 Cys	Leu Gly	Asn Asp	Val Gly 1780 Glu	Asp 1765 Lys)	175(Gly 5 Asn	Ser Cys	Tyr Ala	Ile Glu 1785 Ser	Cys 177(Pro	1755 Ser) Ile	Cys Lys	Val Cys	Pro Lys 1790 Thr	Pro 1775 Ala	1760 Tyr 5
1745 Cys Thr	Leu Gly Asn	Asn Asp Pro 1799 Val	Val Gly 1780 Glu	Asp 1765 Lys) Asn	1750 Gly S Asn Gly	Ser Cys His	Tyr Ala Ser 1800 Gln	Ile Glu 1785 Ser	Cys 1770 Pro Gly	1755 Ser) Ile Glu	Cys Lys Ile	Val Cys Tyr 1805 Leu	Pro Lys 1790 Thr	Pro 1775 Ala) Val	1760 Tyr 5 Pro Gly
1745 Cys Thr Gly Ala Thr	Leu Gly Asn Ala 1810 Lys	Asn Asp Pro 1799 Val	Val Gly 1780 Glu Thr	Asp 1765 Lys) Asn Phe	1750 Gly Asn Gly Ser	Ser Cys His Cys 1815	Tyr Ala Ser 1800 Gln	Ile Glu 1785 Ser) Glu	Cys 1770 Pro Gly Gly	1755 Ser) Ile Glu Tyr	Cys Lys Ile Gln 1820 Asn	Val Cys Tyr 1805 Leu	Pro Lys 1790 Thr Met	Pro 1775 Ala) Val Gly	1760 Tyr Fro Gly Val
Thr Gly Ala Thr 1825	Leu Gly Asn Ala 1810 Lys	Asn Asp Pro 1795 Val) Ile	Val Gly 1780 Glu Thr	Asp 1765 Lys) Asn Phe Cys	1750 Gly Asn Gly Ser Leu 1830	Ser Cys His Cys 1815 Glu	Tyr Ala Ser 1800 Gln Ser	Glu 1785 Ser Glu Gly	Cys 1770 Pro Gly Gly	1755 Ser) Ile Glu Tyr Trp 1835	Cys Lys Ile Gln 1820 Asn	Val Cys Tyr 1805 Leu His	Lys 1790 Thr Met	Pro 1775 Ala) Val Gly	Tyr Fro Gly Val Pro 1840
Thr Gly Ala Thr 1825	Leu Gly Asn Ala 1810 Lys Cys	Asn Asp Pro 1795 Val Ile Lys	Val Gly 1780 Glu Thr Thr	Asp 1765 Lys) Asn Phe Cys Val 1845	Gly Asn Gly Ser Leu 1830 Ser	Cys His Cys 1815 Glu Cys	Tyr Ala Ser 1800 Gln Ser Gly	Glu 1785 Ser) Glu Gly Lys	Cys 1770 Pro Gly Gly Glu Pro 1850	1755 Ser) Ile Glu Tyr Trp 1835 Ala	Cys Lys Ile Gln 1820 Asn Ile	Val Cys Tyr 1805 Leu His	Pro Lys 1790 Thr Met Leu Glu	Pro 1775 Ala) Val Gly Ile Asn 1855	Tyr Tyr Pro Gly Val Pro 1840 Gly
Thr Gly Ala Thr 1825 Tyr Cys	Leu Gly Asn Ala 1810 Lys Cys	Asn Asp Pro 1799 Val Ile Lys Glu	Val Gly 1780 Glu Thr Thr Ala Glu 1860	Asp 1765 Lys) Asn Phe Cys Val 1845 Leu	1750 Gly Asn Gly Ser Leu 1830 Ser Ala	Ser Cys His Cys 1815 Glu Cys	Tyr Ala Ser 1800 Gln Ser Gly Thr	Glu Gly Gly Lys Phe 1865	Cys 1770 Pro Gly Gly Glu Pro 1850 Gly	1755 Ser) Ile Glu Tyr Trp 1835 Ala) Ser	Cys Lys Ile Gln 1820 Asn Ile	Val Cys Tyr 1805 Leu His Pro	Pro Lys 1790 Thr Met Leu Glu Thr 1870	Pro 1775 Ala) Val Gly Ile Asn 1855 Tyr	1760 Tyr Pro Gly Val Pro 1840 Gly Arg
Thr Gly Ala Thr 1825 Tyr Cys	Leu Gly Asn Ala 1810 Lys Cys Ile Asn	Asn Asp Pro 1799 Val Ile Lys Glu Lys 1879	Val Gly 1780 Glu Thr Thr Ala Glu 1860 Gly	Asp 1765 Lys) Asn Phe Cys Val 1845 Leu)	1750 Gly Asn Gly Ser Leu 1830 Ser Ala	Ser Cys His Cys 1815 Glu Cys Phe Leu	Tyr Ala Ser 1800 Gln Ser Gly Thr Ala 1880	Glu Glu Glu Gly Lys Phe 1869	Cys 1770 Pro Gly Gly Glu Pro 1850 Gly Asp	1755 Ser Ile Glu Tyr Trp 1835 Ala Ser Lys	Cys Lys Ile Gln 1820 Asn Ile Lys	Val Cys Tyr 1805 Leu His Pro Val Ser 1885	Pro Lys 1790 Thr Met Leu Glu Thr 1870 Ser	Pro 1775 Ala) Val Gly Ile Asn 1855 Tyr)	1760 Tyr Pro Gly Val Pro 1840 Gly Arg
Thr Gly Ala Thr 1825 Tyr Cys Cys Ala	Leu Gly Asn Ala 1810 Lys Cys Ile Asn Asn 1890	Asn Asp Pro 1799 Val Ile Lys Glu Lys 1879 Ser	Val Gly 1780 Glu Thr Thr Ala Glu 1860 Gly Ser	Asp 1765 Lys) Asn Phe Cys Val 1845 Leu) Tyr	1750 Gly Asn Gly Ser Leu 1830 Ser Ala Thr	Ser Cys His Cys 1815 Glu Cys Phe Leu His	Tyr Ala Ser 1800 Gln Ser Gly Thr Ala 1880 Ser	Glu 1785 Ser Glu Gly Lys Phe 1865 Gly Pro	Cys 1770 Pro Gly Gly Glu Pro 1850 Gly Asp	1755 Ser) Ile Glu Tyr Trp 1835 Ala) Ser Lys Val	Cys Lys Lys Gln 1820 Asn Ile Lys Glu Cys 1900	Val Cys Tyr 1805 Leu His Pro Val Ser 1885 Glu	Pro Lys 1790 Thr Met Leu Glu Thr 1870 Ser	Pro 1775 Ala) Val Gly Ile Asn 1855 Tyr) Cys	1760 Tyr Pro Gly Val Pro 1840 Gly Arg Leu Lys
Thr Gly Ala Thr 1825 Tyr Cys Cys Ala Cys	Leu Gly Asn Ala 1810 Lys Cys Ile Asn Asn 1890 Ser	Asn Asp Pro 1799 Val Ile Lys Glu Lys 1879 Ser	Val Gly 1780 Glu Thr Thr Ala Glu 1860 Gly Ser	Asp 1765 Lys) Asn Phe Cys Val 1845 Leu) Tyr	1750 Gly Asn Gly Ser Leu 1830 Ser Ala Thr	Ser Cys His Cys 1815 Glu Cys Phe Leu His 1895 Ile	Tyr Ala Ser 1800 Gln Ser Gly Thr Ala 1880 Ser	Glu 1785 Ser Glu Gly Lys Phe 1865 Gly Pro	Cys 1770 Pro Gly Gly Glu Pro 1850 Gly Asp	1755 Ser Ile Glu Tyr Trp 1835 Ala Ser Lys Val	Cys Lys Lys Gln 1820 Asn Lys Glu Cys 1900 Tyr	Val Cys Tyr 1805 Leu His Pro Val Ser 1885 Glu	Pro Lys 1790 Thr Met Leu Glu Thr 1870 Ser	Pro 1775 Ala) Val Gly Ile Asn 1855 Tyr) Cys	1760 Tyr Fro Gly Val Pro 1840 Gly Arg Leu Lys
Thr Gly Ala Thr 1825 Tyr Cys Ala Cys 1905	Leu Gly Asn Ala 1810 Lys Cys Ile Asn Asn 1890 Ser	Asn Asp Pro 1799 Val Ile Lys Glu Lys 1879 Ser	Val Gly 1780 Glu Thr Thr Ala Glu 1860 Gly Ser	Asp 1765 Lys) Asn Phe Cys Val 1845 Leu) Tyr	1750 Gly Asn Gly Ser Leu 1830 Ser Ala Thr Ser Asn 1910	Cys His Cys 1815 Glu Cys Phe Leu His 1895 Ile	Tyr Ala Ser Gly Thr Ala 1880 Ser Asn	Glu 1785 Ser Glu Gly Lys Phe 1865 Gly Pro Asn	Cys 1770 Pro 5 Gly Gly Glu Pro 1850 Gly Asp Pro	1755 Ser Ile Glu Tyr Trp 1835 Ala Ser Lys Val Lys 1915	Cys Lys Lys Gln 1820 Asn Lys Glu Cys 1900 Tyr	Val Cys Tyr 1805 Leu His Pro Val Ser 1885 Glu	Pro Lys 1790 Thr Met Leu Glu Thr 1870 Ser Pro	Pro 1775 Ala Val Gly Ile Asn 1855 Tyr Cys Val Ser	1760 Tyr Fro Gly Val Pro 1840 Gly Arg Leu Lys Gly 1920
Thr Gly Ala Thr 1825 Tyr Cys Cys Ala Cys 1905 Leu	Leu Gly Asn Ala 1810 Lys Cys Ile Asn Asn 1890 Ser	Asn Asp Pro 1799 Val Ile Lys Glu Lys 1879 Ser Ser	Gly Thr Thr Ala Glu 1860 Gly Ser Pro	Asp 1765 Lys Asn Phe Cys Val 1845 Leu Tyr Trp Glu Ser 1925	1750 Gly Asn Gly Ser Leu 1830 Ser Ala Thr Ser Asn 1910 Thr	Cys His Cys 1815 Glu Cys Phe Leu His 1895 Ile Ala	Tyr Ala Ser Gly Thr Ala 1880 Ser Asn	Glu 1785 Ser Glu Gly Lys Phe 1865 Gly Pro Asn	Cys 1770 Pro Gly Gly Glu Pro 1850 Gly Asp Pro Gly Ser 1930	1755 Ser Ile Glu Tyr Trp 1835 Ala Ser Lys Val Lys 1915 Cys	Cys Lys Ile Gln 1820 Asn Ile Lys Glu Cys 1900 Tyr Asp	Val Cys Tyr 1805 Leu His Pro Val Ser 1885 Glu Ile Thr	Pro Lys 1790 Thr Met Leu Glu Thr 1870 Ser Pro Leu Gly	Pro 1775 Ala Val Gly Ile Asn 1855 Tyr Cys Val Ser Tyr 1935	1760 Tyr Fro Gly Val Pro 1840 Gly Arg Leu Lys Gly 1920 Ser
Thr Gly Ala Thr 1825 Tyr Cys Cys Ala Cys 1905 Leu	Leu Gly Asn Ala 1810 Lys Cys Ile Asn Asn 1890 Ser	Asn Asp Pro 1799 Val Ile Lys Glu Lys 1879 Ser Ser	Gly Thr Thr Ala Glu 1860 Gly Ser Pro	Asp 1765 Lys Asn Phe Cys Val 1845 Leu Tyr Trp Glu Ser 1925 Ser	1750 Gly Asn Gly Ser Leu 1830 Ser Ala Thr Ser Asn 1910 Thr	Cys His Cys 1815 Glu Cys Phe Leu His 1895 Ile Ala	Tyr Ala Ser Gly Thr Ala 1880 Ser Asn	Glu 1785 Ser Glu Gly Lys Phe 1865 Gly Pro Asn	Cys 1770 Pro Gly Gly Glu Pro 1850 Gly Asp Pro Gly Ser 1930 Thr	1755 Ser Ile Glu Tyr Trp 1835 Ala Ser Lys Val Lys 1915 Cys	Cys Lys Ile Gln 1820 Asn Ile Lys Glu Cys 1900 Tyr Asp	Val Cys Tyr 1805 Leu His Pro Val Ser 1885 Glu Ile Thr	Pro Lys 1790 Thr Met Leu Glu Thr 1870 Ser Pro Leu Gly	Pro 1775 Ala Val Gly Ile Asn 1855 Tyr Cys Val Ser Tyr 1935 Trp	1760 Tyr Fro Gly Val Pro 1840 Gly Arg Leu Lys Gly 1920 Ser

The Live Asp Ala Val Ine The Gly Ash The Leu Ala Gly Leu Asp The 1970 The Cys Live Glu Tyre The Leu Ala Gly Leu Asp The Val The The Cys Live Glu Tyre The Leu Ala Gly Leu Asp The Val The Cys Live Glu Tyre The Leu Ala Gly Leu Asp The Val The Leu Ala Gly Leu Asp The Cys Live Glu Tyre The Leu Ala Gly Leu Asp The Val The Cys Live Glu Tyre The Leu Ala Gly Leu Asp The Val The Cys Live Glu Tyre The Leu Ala Gly Leu Asp The Val The Cys Live Glu Tyre The Leu Ala Gly Leu Asp The Val The Cys Live Glu Tyre The Leu Ala Gly Leu Asp The Val The Cys Live Glu Tyre The Leu Ala Gly Leu Asp The Val The Cys Live Glu Tyre The Leu Ala Gly Leu Asp The Cys Live Glu Tyre The Leu Ala Gly Leu Asp The Cys Live Glu The Cys Live Glu The Cys Live Glu Tyre The Cys Live Glu The C Value Leu Ala val ser Cys Asp Glu Pro Pro 1025 Glu Mr. Ala Arg Leu Phe Gly Asp Tle Ala Phe Ty Asp. Cys Ser 2050 Arg Cys Ile Ala 2080 Arg Cys Ile Leu Glu Ser 2055 Gly Gln Asp Met Pro Rive Ser Ile Leu Glu Ser 2050 Arg Cys Ile Leu Glu Ser 2050 Arg Cys Ile Leu Glu Ser 1050 Arg Cys Ile Arg Cy 2080 Ser Val Ser The Leu 2095 And Ser Wal Ser Wal Ser The Leu 2095 And Ser Wal Ser Wal Ser The Leu 2095 And Ser Wal Ser Wal Ser The Leu 2095 And Ser Wal Ser Wal Ser The Leu 2095 And Ser Wal Ser Wal Ser The Leu 2095 And Ser Wal Ser Wal Ser Wal Ser The Leu 2095 And Ser Wal Se Val Ser INS Ala INS Phe Ala Ala 2105. Met Glu Gly Fre Asn Pro Ser Pro Met Ser Ile Gln Cys Tle Pro Val nee July 2115 Trp Asn Pro Sex Pro Net Asn 2155 Cys Asn Lys Gly Pro Cys Tile Pro Val Ala Met Val Ala Myr Sex Cys Asn Lys Gly Pro Roll Ash Mas Sex Cys Asn Lys Gly Pro Roll Ash Mas Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Mas Mar Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Myr Sex Cys Asn Lys Gly Pro Roll Ash Myr Sex Cys Asn Lys Cys Cys Asn Lys Cys Cys Asn Lys Cys Asn Lys Cys Cys Cys Cys Asn Lys Cys Cys Cys Cys Cys Cys Cys 2145 Tyr Ser pne 2165

2145 Tyr Ser pne 2165 TYT TIE LYS 2180 INS Val GIV Ash GIV Phe Lev GIV His mr mr Giv Arg Ile Phe GIV 2220 ser Val GIV 5er Pro

2220 ser Val GIV 5 2230 Ala Ash Arg Ris Tro Pro Pro Pro Tie Gin Ash Arg Lys Oro Pro Pro Pro Pro Pro Pro Pro Le Gin Ash Pro Pro Val 2245 Leu Asp Cys Giv Lys Pro Pro Pro Pro Leu Met Cys Val Pro Leu Met Cys V Leu Met Cys 7260 bue cas yeu can can take and ca 2290 GAN LIVE GLY LIVE 72310 - 2305 LIVE CAS WEE 52370 - 2302 LIVE CAS WEE 52370 LIVE CAS WEE 523 2320 GIN Ten Line 3340 - 2372 Asy Len 2340 - 2330 bus ser che 3320 - 2372 Asy Len Line 2372 Asy Len Line 2372 Asy Len Line 2372 Asy L His Val Leu 2355 TIP ASP ASP SET PRE GLY VAL PRO THE PRO SET SET ALA LEU HIS PRE PRO 12310 PRO LEU FILE SET PRE GLY VAL PRO THE PRO SET SET ALA LEU HIS PRE PRO 12315 PRO THE PRO SET SET ALA LEU HIS PRE PRO 12315 PRO THE PRO SET SET ALA LEU HIS PRE PRO 12315 PRO THE PRO SET SET ALA LEU HIS PRE PRO 12315 PRO THE PRO SET SET ALA LEU HIS PRE PRO 12315 PRO THE PRO SET SET ALA LEU HIS PRE PRO 12315 PRO THE PRO SET SET ALA LEU HIS PRE PRO 12315 PRO THE PRO SET SET ALA LEU HIS PRE PRO 12315 PRO THE PRO SET SET ALA LEU HIS PRE PRO 12315 PRO THE PRO SET SET ALA LEU HIS PRE PRO 12315 PRO THE PRO SET SET ALA LEU HIS PRE PRO 12315 PRO THE PRO SET SET ALA LEU HIS PRE PRO 12315 PRO THE PRO SET SET ALA LEU HIS PRE PRO 12315 PRO THE PRO 1 2375 Pro Ile Pro Ser Ser Ala Leu His Phe Cly Val Pro Ile Pro 2395 Pro Ile Pro 1895 Pro Ile Pro Ile Pro Ile Pro 1895 Pro Ile Pro 1895 Pro Ile Pro Ile Pro 1895 Pro Ile

Asn	Ser	Thr	Thr 2420		Cys	Gln	Pro	Asp 2425	_	Thr	Trp	Ser	Ser 2430		Leu
Pro	Glu	Cys	Val	Pro	Val	Glu	Cys	Pro	Gln	Pro	Glu	Glu	Ile	Pro	Asn
		2435	5				2440)				2445	5		
Gly	Ile	Ile	Asp	Val	Gln	Gly	Leu	Ala	Tyr	Leu	Ser	Thr	Ala	Leu	Tyr
	2450					2455					2460				
Thr	Cys	Lys	Pro	Gly	Phe	Glu	Leu	Val	Gly	Asn	Thr	Thr	Thr	Leu	Cys
2465	-	_		_	2470					2475					2480
		Asn	Gly	His	Trp	Leu	Gly	Gly	Lys	Pro	Thr	Cys	Lys	Ala	Ile
2				2485				-	2490			-	-	2495	
Glu	Cvs	Leu	Lvs			Glu	Ile	Leu	Asn	Glv	Lvs	Phe	Ser	Tvr	Thr
	-1 -		2500		-1-			2505		2			2510		
Δen	T.011	His			Gln	Thr	Val			Ser	Cvs	Asn			Phe
тър	шси	2515		O ₁	0111	+	2520		-1-	501	0 15	2525		011	
Δνα	Leu			Pro	Sar	Δla		Thr	Cve	T.e.11	Glu			Δsn	Trn
Arg	2530		GLY	110	DCI	2535		1111	Cys	пси	2540		Q±3	11010	112
7			777	Dro	C0~			71 a	T10	цíс			Cor	Dro	Gln
2545		ASP	Ата	FIO	2550		Maii	πια	116	2555		тэр	Der	110	2560
		~1	7 ~~	~1			C1	C1	777			C0~	m rr	Clu	Ala
PIO	тте	GIU	ASII	2565		vaı	GIU	GIA	2570		тўт	ser	IYI	2575	
~1.	- 1 -	- 1 -				D1	D	01			T7~ 1	77.	~1		Ala
тте	TTE	тте			Cys	Pne	Pro			GIII	var	Ата			ATa
	~ 7	1	2580		~1		~1 -	2585		a	a	-1 -	2590		C
мет	GIN		_	GIU	GIU	ser			ser	ser	ser			THE	Cys
	_	2595		_	~1	_	2600		•••	- 1 -	•	2605		3	G
Met			Asp	Cys	GIA			Pro	HIS	тте			СТУ	Asp	Cys
	2610		_	_	_	2615		_	51 .	~ 1	2620				37-1-
		Leu	Lys	Asp			GIY	Tyr	Pne			GIU	Asp	Asp	Met
2625		-	_	_	2630		_		_	263			_	~1	2640
Met	Glu	Val	Pro			Thr	Pro	His			Tyr	His	ьeu		Ala
		_		2645		_		_	2650		_		m1.	2655	
Val	Ala	rys			Glu	Asn	Thr			ser	Pro	Ата			Ser
_			2660		~-2			2665		_	 1	~	2670		~1
Ser	Asn			туr	GTA	Thr			ser	туr	Thr			Pro	Gly
_		2675			_	_	2680			_	~1	2685		~ 7	-1
Tyr			Leu	GIY	Asn			Leu	TIE	Cys			Asp	GIĀ	Thr
_	2690		_		_	2695			_		2700		_	_	_
_		Gly	Ser	Ala			Cys	Ile	Ser			Cys	Asp	Leu	Pro
2705					2710		_			2719	-		_		2720
Thr	Ala	Pro	Glu			Phe	Leu	Arg			Glu	Thr	Ser		Gly
	_			2725		_			2730			_		2735	
Ser	Ala	Val			Ser	Cys	Lys			His	Ile	Leu			Ser
			2740			_		2745					2750		_
Asp	Leu			Cys	Leu	Glu			Lys	Trp	Ser			Ser	Pro
		2755		_			2760					2765			
Arg			Ala	Ile	Ser			Lys	Pro	Asn			Met	Asn	Gly
	2770					2775					2780				_
		Lys	Gly	Ser			Thr	Tyr	Leu			Leu	Tyr	Tyr	Glu
2785					2790					2.795					2800
Cys	qaA	Pro	Gly			Leu	Asn	Gly			Arg	Arg	Thr		
				2805	5				2810	0				2815	5
Asp	Asp	Lys			Asp	Glu	Asp	Glu	Pro	Ile	Cys	Ile	Pro	Val	Asp
			2820					2825					2830		
Сув	Ser	Ser	Pro	Pro	Val	Ser	Ala	Asn	Gly	Gln	Val	Arg	Gly	Asp	Glu
		2835					284					2845			
Tyr	Thr	Phe	Gln	Lys	Glu			Tyr	Thr	Cys			Gly	Phe	Leu
	2850					2855	-				2860	3			

Leu 2865		Gly	Ala	Arg	Ser 2870		Val	Cys	Leu	Ala 2875		СΙΆ	Ser		Ser 2880
Gly	Ala	Thr	Pro	Asp	Cys	Val	Pro	Val	Arg	Cys	Ala	Thr	Pro	Pro	Gln
_				2885					2890					2895	
Leu	Ala	Asn	Gly 2900		Thr	Glu	Gly	Leu 2905		Tyr	Gly	Phe	Met 2910		Glu
Val	Thr	Phe			His	Glu	Glv			Leu	His	Glv			Lvs
var		2915		0,70			2920					2925			-
I.e.i	Thr	_		Ser	Asp	Glv			Asp	Ala	Glu	Ile	Pro	Leu	Cvs
Dou	2930		0211			2935		1-	•		2940				-
Lvs			Asn	Cvs	Glv	Pro	Pro	Glu	Asp	Leu	Ala	His	Gly	Phe	Pro
2945				_	2950				-	2955					2960
Asn	Gly	Phe	Ser	Phe 2965		His	Gly	Gly	His 2970	Ile	Gln	Tyr	Gln	Cys 2975	
Dro	Glv	ጥላፖ	Lvs			Glv	Asn	Ser		Arg	Ara	Cvs	Leu		
			2980)				2985	5				2990)	
Gly	Ser	Trp	Ser	Gly	Ser	Ser	Pro	Ser	Cys	Leu	Pro	Cys	Arg	Суѕ	Ser
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Gly Ser Arg Ser Ile Thr Glu Cys Ser Ser Phe Ser Ser Thr Phe Ser 1155 Ala Ala Glu Glu Ser Val Val Pro Pro Ala Ser Leu Gly His Tle Lys 1170 1170 1175 Lys Arg His Glu Ile Ser Ser Gln Val Phe His Glu Cys Phe Phe Asn 1190 1185 1190 Pro Cys His Asn Ser Gly Thr Cys Gln Gln Leu Gly Arg Gly Tyr Val 1205 Cys Leu Cys Pro Leu Gly Tyr Thr Gly Leu Lys Cys Glu Thr Asp Ile 1220 Asp Glu Cys Ser Pro Leu Pro Cys Leu Asn Asn Gly Val Cys Lys Asp 1235 Leu Val Gly Glu Phe Ile Cys Glu Cys Pro Ser Gly Tyr Thr Gly Gln 1250 Arg Cys Glu Glu Asn Ile Asn Glu Cys Ser Ser Pro Cys Leu Asn 1260 Lys Gly Ile Cys Val Asp Gly Val Ala Gly Tyr Arg Cys Thr Cys Val 1280 Lys Gly Phe Val Gly Leu His Cys Glu Thr Glu Val Asn Glu Cys Glu Thr Cys Val 1330 Ser Asn Pro Cys Leu Asn Asn Ala Val Cys Glu Asp Gln Val Gly Gly 1315 Phe Leu Cys Lys Cys Pro Pro Gly Phe Leu Gly Thr Arg Cys Gly Lys 1330 Asn Val Asp Glu Cys Leu Ser Gln Pro Cys Lys Asp 1340 Asn Val Asp Glu Cys Leu Ser Gln Pro Cys Lys Asn Gly Ala Thr Cys 1360 Lys Asp Gly Ala Asn Ser Phe Arg Cys Leu Cys Ala Ala Gly Phe Thr 1365 Gly Ser His Cys Glu Leu Asn Ile Asn Glu Cys Glu Thr Gly Ala Thr Cys 1360 Arg Asn Gln Ala Thr Cys Val Asp Glu Leu Asn Ser Tyr Ser Cys Lys 1390 Arg Asn Gln Ala Thr Cys Val Asp Glu Leu Asn Ser Tyr Ser Cys Lys 1395 Arg Asn Gln Ala Thr Cys Val Asp Glu Leu Asn Ser Tyr Ser Cys Lys 1395 Arg Asn Gln Ala Thr Cys Val Asp Glu Leu Asn Ser Tyr Ser Cys Lys 1390 Arg Asn Gln Ala Thr Cys Val Asp Glu Leu Asn Ser Tyr Ser Cys Lys 1390 Arg Asn Gln Ala Thr Cys Val Asp Glu Leu Asn Ser Tyr Ser Cys Lys 1390 Arg Asn Gln Ala Thr Cys Val Asp Glu Leu Asn Ser Tyr Gly Tyr Val Met 1415 Leu Asp Gly Met Leu Pro Ser Leu His Ala Leu Thr Cys Thr Phe Trp 1445 Met Lys Ser Ser Asp Asp Met Asn Tyr Gly Thr Pro Ile Ser Tyr Ala 1460 Val Asp Asn Gly Ser Asp Asn Thr Leu Leu Leu Thr Asp Cys Pro Ser 1490 Val Asn Asp Gly Arg Trp His His His Ile Ala Ile Thr Trp Thr Ser Ala 1490 Val Asn Asp Gly Arg Trp His His His Ile Ala Ile Thr Trp Thr Ser Ala																		
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Ala Gly Leu Ser Val Gly Leu Pro Ile Pro Gly Gly Gly Ala Leu Val 1540 1545 Leu Gly Gln Glu Gln Asp Lys Lys Gly Glu Gly Phe Ser Pro Ala Glu 1565 1555 1560 Ser Phe Val Gly Ser Ile Ser Gln Leu Asn Leu Trp Asp Tyr Val Leu 1575 1580 Ser Pro Gln Gln Val Lys Ser Leu Ala Thr Ser Cys Pro Glu Glu Leu 1590 1595 Ser Lys Gly Asn Val Leu Ala Trp Pro Asp Phe Leu Ser Gly Ile Val 1605 1610 Gly Lys Val Lys Ile Asp Ser Lys Ser Ile Phe Cys Ser Asp Cys Pro 1620 1625 Arg Leu Gly Gly Ser Val Pro His Leu Arg Thr Ala Ser Glu Asp Leu 1640 1645 Lys Pro Gly Ser Lys Val Asn Leu Phe Cys Asp Pro Gly Phe Gln Leu 1655 Val Gly Asn Pro Val Gln Tyr Cys Leu Asn Gln Gly Gln Trp Thr Gln 1670 1675 Pro Leu Pro His Cys Glu Arg Ile Ser Cys Gly Val Pro Pro Pro Leu 1690 1685 Glu Asn Gly Phe His Ser Ala Asp Asp Phe Tyr Ala Gly Ser Thr Val 1700 1705 1710 Thr Tyr Gln Cys Asn Asn Gly Tyr Tyr Leu Leu Gly Asp Ser Arg Met 1715 1720 1725 Phe Cys Thr Asp Asn Gly Ser Trp Asn Gly Val Ser Pro Ser Cys Leu 1735 1740 Asp Val Asp Glu Cys Ala Val Gly Ser Asp Cys Ser Glu His Ala Ser 1755 1750 Cys Leu Asn Val Asp Gly Ser Tyr Ile Cys Ser Cys Val Pro Pro Tyr 1770 1765 Thr Gly Asp Gly Lys Asn Cys Ala Glu Pro Ile Lys Cys Lys Ala Pro 1785 . 1790 1780 Gly Asn Pro Glu Asn Gly His Ser Ser Gly Glu Ile Tyr Thr Val Gly 1800 1805 Ala Ala Val Thr Phe Ser Cys Gln Glu Gly Tyr Gln Leu Met Gly Val 1815 1820 Thr Lys Ile Thr Cys Leu Glu Ser Gly Glu Trp Asn His Leu Ile Pro 1825 1830 1835 Tyr Cys

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